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(71) Applicant (for all designated States except US): LTS LOHMANN THERAPIE-SYSTEME AG [DE/DE]; Lohmannstrasse 2, 56626 Andernach (DE).

(72) Inventor; and

(75) Inventor/Applicant (US only): HORSTMANN, Michael [DE/DE]; Fürst-Friedrich-Karl-Strasse 9, 56564 Neuwied (DE).

(74) Attorney: SCHMIDT, Werner; LTS Lohmann Therapie-Systeme AG, Postfach 1525, 56605 Andernach (DE).

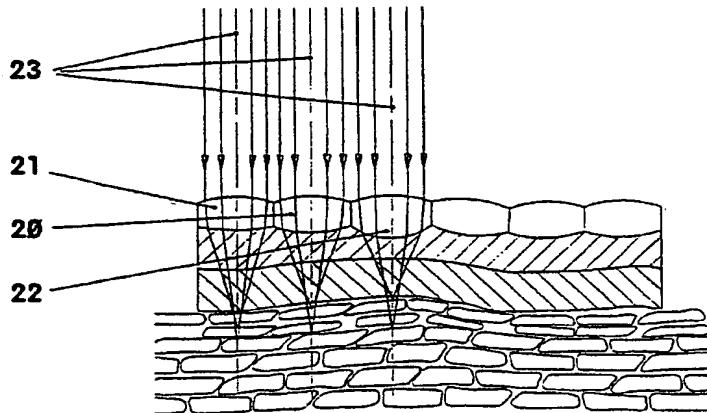
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(54) Title: METHOD AND DEVICE FOR IMPROVING THE PERMEABILITY OF THE HUMAN SKIN

(54) Bezeichnung: VERFAHREN UND VORRICHTUNG ZUR VERBESSERUNG DER DURCHLÄSSIGKEIT DER MENSCHLICHEN HAUT



(57) Abstract: The invention relates to a method for improving the permeability of the human skin in order to transdermally supply active substances, permeability being improved by means of a plaster that is transparent in at least some areas, contains active substance, and is flexible in at least some areas, and at least one external light source. According to said method, light that is emitted at least for a short period of time by an external light source and normally impinges at least some areas of the plaster is focused onto the stratum corneum of the skin with the aid of a plurality of individual focusing lenses which are integrated into the plaster so as to bring about changes in the stratum corneum, said changes improving the permeability of the skin. The inventive method for improving the permeability of the human skin allows for reproducible permeability for specific active substances.

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(57) **Zusammenfassung:** Die Erfindung betrifft ein Verfahren zum Verbessern der Durchlässigkeit der menschlichen Haut, für die transdermale Zufuhr von Wirkstoffen, mittels eines zumindest bereichsweise transparenten, wirkstoffhaltigen zumindest bereichsweise flexiblen Pflasters und mindestens einer externen Lichtquelle. Dazu wird auf das Pflaster zumindest bereichsweise normal auftreffendes, von einer externen Lichtquelle zumindest kurzfristig ausgesandtes Licht durch eine Vielzahl von einzelnen im Pflaster integrierten Sammellinsen auf die Hornschicht der Haut gebündelt, um so die Durchlässigkeit der Haut verbessende Hornschichtveränderungen zu erzeugen. Mit der vorliegenden Erfindung wird ein Verfahren zur Verbesserung der Durchlässigkeit der menschlichen Haut entwickelt, das eine reproduzierbare Durchlässigkeit für bestimmte Wirkstoffe ermöglicht.